Food and Drug Administration, HHS

§ 177.1395 Laminate structures for use at temperatures between 120 °F and 250 °F.

- (a) The laminates identified in this section may be safely used at the specified temperatures. These articles are layered structures that are optionally bonded with adhesives. In these articles, the food-contact layer does not function as a barrier to migration of components from non-food-contact layers. The layers may be laminated, extruded, coextruded, or fused.
- (b) Laminate structures may be manufactured from:
- (1) Polymers and adjuvants complying with § 177.1390 of this chapter.
- (2) Any polymeric resin listed in these regulations so long as the use of the resin in the structure complies with the conditions of use (food type and time/temperature) specified in the regulation for that resin.
- (3) Optional adjuvant substances used in accordance with §174.5 of this chapter.
- (4) The following substances in non-food-contact layers only:

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Substances	Limitations
Ethylene/1,3-phenylene oxyethylene isophthalate/ terephthalate copolymer (CAS Reg. No. 87365-98-8) complying with § 177.1345.	For use only with polyethylene terephthalate as the food-contact layer, complying with § 177.1630 under conditions of use C through G described in table 2 of § 176.170(c) of this chapter. Laminate structures, when extracted with 8 percent ethanol at 150 °F for 2 hours shall not yield m-pheny lenedioxy-O,O'diethyl isophthalate or cyclic bis(ethylene isophthalate) in excess of 7.8 micrograms/square decimeter (0.5 microgram/square inch) of food-contact surface.
Nylon 6/12 resins complying with § 177.1500(b), item 13.2, of this chapter (CAS Reg. No. 25191–04–2).	For use with nonalcoholic foods at temperatures not to exceed 100 °C (212 °F). Laminate structures with authorized food-contact materials yield no more than 0.15 milligram of epsilon-caprolactam and 0.04 milligram of omega-laurolactam per square inch when extracted with water at 100 °C (212 °F) for 5 hours.

[52 FR 33575, Sept. 4, 1987, as amended at 53 FR 19772, May 31, 1988; 57 FR 43399, Sept. 21, 1992; 58 FR 32610, June 11, 1993; 62 FR 53957, Oct. 17, 1997]

§ 177.1400 Hydroxyethyl cellulose film, water-insoluble.

Water-insoluble hydroxyethyl cellulose film may be safely used for packaging food in accordance with the following prescribed conditions:

- (a) Water-insoluble hydroxyethyl cellulose film consists of a base sheet manufactured by the ethoxylation of cellulose under controlled conditions, to which may be added certain optional substances of a grade of purity suitable for use in food packaging as constituents of the base sheet or as coatings applied to impart desired technological properties.
- (b) Subject to any limitations prescribed in parts 170 through 189 of this chapter, the optional substances used